

US EPA RECORDS CENTER REGION 5



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United States Environmental Protection Agency
Region V
POLLUTION REPORT

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Subject: Final POLREP
 Bay Harbor CKD Leachate Site
 4000 Main Street, Petoskey, Resort Township, MI

POLREP No.: 6	Site #: 1119
Reporting Period: 7/20/2010 through 11/01/2012	D.O. #:
Start Date: 5/10/2005	Response Authority: CERCLA
Mob Date: 5/9/2005	Response Type: Time-Critical
Demob Date: 2/17/2011	NPL Status: Non NPL
Completion Date: 11/1/2012	Incident Category: Removal Action
CERCLIS ID #: MIN000509941	Contract #
RCRIS ID #:	

Site Description

See previous POLREP for details.

Current Activities

During the fall of 2010 and spring of 2011 the following work was conducted:

- 1) The U.S.EPA performed partial oversight of West CKD augmentation activities that included:
 - Excavation and removal of existing collection trenches and fill material
 - Construction of a temporary breakwall
 - Installation of dewatering and water treatment systems
 - Installation of permanent clay barrier wall
 - Installation of deeper collection trench
 - Reconstruction of the shallow collection trench
 - Installation of geosynthetic clay liner to prevent surface water infiltration
 - Site restoration including placement of armor stone/rip-rap
- 2) The U.S. EPA performed partial oversight of the continued Seep 2 design investigation activities for the proposed perched groundwater diversion system. Seep 2 onsite investigation activities included:
 - Installation of a series of borings to identify the shale layer depth and thickness

- Installation of a series upgradient pilot dewatering wells screened above the shale
- Installation of monitoring wells above the shale and within the unconsolidated material
- Performing short-term pumping tests in each of the pilot diversion wells
- Performing extended monitoring within the perched groundwater monitoring wells and surface water drainage swales to assess surface water infiltration

3) Preliminary testing and adjustment of the East Park pumps and monitoring system components of the groundwater diversions system were completed by CMS as planned. The groundwater diversion system was started thereafter and operated at partial flow rates for the initial 30-day period.

4) A final round of quarterly mercury flux groundwater samples were collected by CMS in the fall of 2010 at the shoreline nested well locations to complete the mercury flux evaluation.

5) The U.S. EPA performed a preliminary review of the Edge Drain operational records, along with weekly and monthly data submittals, Interim Response Leachate Collection System (ILCS) drawings, and site weather data in response to Edge Drain operational issues. The U.S. EPA performed field oversight of subsequent Edge Drain design investigation/modification activities.

6) The U.S. EPA reviewed the CMS Technical Impracticability Waiver demonstration.

7) The U.S. EPA commenced transfer of the overall Bay Harbor CKD Leachate site project administration, enforcement, and oversight to the Michigan Department of Environmental Quality (MDEQ).

Planned Removal Actions

Ensure institutional site knowledge and key information gathered over the duration of the project is conveyed to the MDEQ to ensure successful site transition.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
START - Removal	\$330,000.00	\$330,000.00	\$0.00	0.00%
Intramural Costs				
Total Site Costs	\$330,000.00	\$330,000.00	\$0.00	0.00%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Disposition of Wastes

Contaminants of Concern include elevated pH and Mercury concentrations in groundwater and leachate. Solid CKD/soil mixture was removed and disposed of at an offsite landfill. Impacted groundwater and leachate collected from the shoreline collection systems is treated onsite and discharged via NPDES permit.

www.epaosc.org/BayHarborCKD